- (Currently Amended) A core for providing communications between a
 transmission media and a processor in a parallel serial architecture, said core comprising:
 serial data lanes connecting said processor to said transmission media; and
 at least one selector connected to said serial data lanes,
 whereby said selector selectively engages different numbers of said serial data
 lanes to alter a speed of data passing through said core.
- 2. (Original) The core in claim 1, further comprising a data controller for controlling an operation of said selector.
- 3. (Currently Amended) The core in claim 1, wherein each of said serial <u>data</u> lanes includes a buffer.
- 4. (Original) The core in claim 3, wherein said buffers comprise elastic first in, first out (FIFO) buffers.
- 5. (Previously Presented) The core in claim 1, wherein said selector comprises a multiplexer.
- 6. (Original) The core in claim 1, wherein additional speed adjustment is attained by said selector engaging additional lanes.
- 7. (Original) The core in claim 1, wherein said transmission media operates at a different data speed than said processor.
- 8. (Currently Amended) A parallel-serial communication system comprising:
 at least one processor;
 at least one transmission media connecting said at least one processor; and
 a core between each processor and said transmission media, said core providing
 communications between said transmission media and said processor, and said core
 comprising:

serial <u>data</u> lanes connecting said processor to said transmission media; and at least one selector connected to said serial <u>data</u> lanes, whereby said selector selectively engages different numbers of said serial <u>data</u> lanes to alter a speed of data passing through said core.

- 9. (Original) The parallel-serial communication system in claim 8, further comprising a data controller for controlling an operation of said selector.
- 10. (Currently Amended) The parallel-serial communication system in claim 8, wherein each of said serial <u>data</u> lanes includes a buffer.
- 11. (Original) The parallel-serial communication system in claim 10, wherein said buffers comprise elastic first in, first out (FIFO) buffers.
- 12. (Previously Presented) The parallel-serial communication system in claim 8, wherein said selector comprises a multiplexer.
- 13. (Original) The parallel-serial communication system in claim 8, wherein additional speed adjustment is attained by said selector engaging additional lanes.
- 14. (Original) The parallel-serial communication system in claim 8, wherein said transmission media operates at a different data speed than said processor.
- 15. (Currently Amended) A core for providing communications between a transmission media and a processor in a byte stripped parallel serial InfiniBand architecture, said core comprising:

serial <u>data</u> lanes connecting said processor to said transmission media; and at least one selector connected to said serial <u>data</u> lanes,

whereby said selector selectively engages different numbers of said serial data lanes to alter a speed of data passing through said core.

- (Original) The core in claim 15, further comprising a data controller for 16. controlling an operation of said selector.
- (Currently Amended) The core in claim 15, wherein each of said serial data lanes 17. includes a buffer.
- (Original) The core in claim 17, wherein said buffers comprise elastic first in, first 18. out (FIFO) buffers.
- (Previously Presented) The core in claim 15, wherein said selector comprises a 19. multiplexer.
- (Original) The core in claim 15, wherein additional speed adjustment is attained 20. by said selector engaging additional lanes.
- (Original) The core in claim 15, wherein said transmission media operates at a 21. different data speed than said processor.